Hannes Baumann

List of Publications by Year
in descending order

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66 papers	3,524 citations	201674 27 h-index	144013 57 g-index
78 all docs	78 docs citations	78 times ranked	3735 citing authors

#	Article	IF	Citations
1	Larval transport pathways from three prominent sand lance habitats in the Gulf of Maine. Fisheries Oceanography, 2022, 31, 333-352.	1.7	6
2	Loss of transcriptional plasticity but sustained adaptive capacity after adaptation to global change conditions in a marine copepod. Nature Communications, 2022, 13, 1147.	12.8	27
3	Comparative linkage mapping uncovers recombination suppression across massive chromosomal inversions associated with local adaptation in Atlantic silversides. Molecular Ecology, 2022, 31, 3323-3341.	3.9	11
4	High collocation of sand lance and protected top predators: Implications for conservation and management. Conservation Science and Practice, 2021, 3, e274.	2.0	9
5	Sensitivity of sand lance to shifting prey and hydrography indicates forthcoming change to the northeast US shelf forage fish complex. ICES Journal of Marine Science, 2021, 78, 1023-1037.	2.5	18
6	Natal origin and age-specific egress of Pacific bluefin tuna from coastal nurseries revealed with geochemical markers. Scientific Reports, 2021, 11, 14216.	3.3	8
7	Rapid, but limited, zooplankton adaptation to simultaneous warming and acidification. Nature Climate Change, 2021, 11, 780-786.	18.8	30
8	Temperature-dependent effects on fecundity in a serial broadcast spawning fish after whole-life high CO2 exposure. ICES Journal of Marine Science, 2021, 78, 3724-3734.	2.5	4
9	Acidification and hypoxia interactively affect metabolism in embryos, but not larvae, of the coastal forage fish Menidia menidia. Journal of Experimental Biology, 2020, 223, .	1.7	8
10	Are long-term growth responses to elevated pCO2 sex-specific in fish?. PLoS ONE, 2020, 15, e0235817.	2.5	7
11	The role of sand lances (Ammodytes sp.) in the Northwest Atlantic Ecosystem: A synthesis of current knowledge with implications for conservation and management. Fish and Fisheries, 2020, 21, 522-556.	5.3	32
12	A comprehensive non-redundant reference transcriptome for the Atlantic silverside Menidia menidia. Marine Genomics, 2020, 53, 100738.	1.1	6
13	Contrasting genomic shifts underlie parallel phenotypic evolution in response to fishing. Science, 2019, 365, 487-490.	12.6	123
14	Experimental assessments of marine species sensitivities to ocean acidification and co-stressors: how far have we come?. Canadian Journal of Zoology, 2019, 97, 399-408.	1.0	61
15	Citizen science observations reveal rapid, multi-decadal ecosystem changes in eastern Long Island Sound. Marine Environmental Research, 2019, 146, 80-88.	2.5	15
16	High sensitivity of a keystone forage fish to elevated CO2 and temperature. , 2019, 7, coz084.		24
17	Adaptation and evolutionary responses to high CO2. Fish Physiology, 2019, 37, 369-395.	0.8	6
18	Diel and tidal pCO2â€‰Ã—â€‰O2 fluctuations provide physiological refuge to early life stages of a coastal forage fish. Scientific Reports, 2019, 9, 18146.	3.3	19

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19	Otolith-based growth reconstructions in young-of-year Atlantic silversides Menidia menidia and their implications for sex-selective survival. Marine Ecology - Progress Series, 2019, 632, 193-204.	1.9	8
20	Potential for maternal effects on offspring CO2 sensitivities in the Atlantic silverside (Menidia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	1.5	19
21	Starvation rates in larval and juvenile Atlantic silversides (Menidia menidia) are unaffected by high CO2 conditions. Marine Biology, 2018, 165, 1.	1.5	8
22	Quantifying Metabolically Driven pH and Oxygen Fluctuations in US Nearshore Habitats at Diel to Interannual Time Scales. Estuaries and Coasts, 2018, 41, 1102-1117.	2.2	90
23	Robust quantification of fish early life CO ₂ sensitivities via serial experimentation. Biology Letters, 2018, 14, 20180408.	2.3	18
24	Mercury Stable Isotopes Reveal Influence of Foraging Depth on Mercury Concentrations and Growth in Pacific Bluefin Tuna. Environmental Science & Technology, 2018, 52, 6256-6264.	10.0	52
25	You Better Repeat It: Complex CO2 Ã— Temperature Effects in Atlantic Silverside Offspring Revealed by Serial Experimentation. Diversity, 2018, 10, 69.	1.7	25
26	Mercury bioaccumulation increases with latitude in a coastal marine fish (Atlantic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (silversi 1009-1015.	1.4	29
27	Consequences of elevated CO2 exposure across multiple life stages in a coastal forage fish. ICES Journal of Marine Science, 2017, 74, 1051-1061.	2.5	21
28	Combined Effects of Ocean Acidification, Warming, and Hypoxia on Marine Organisms. Limnology and Oceanography E-Lectures, 2016, 6, 1-43.	0.6	7
29	Population genetics and geometric morphometrics of the key silverside, <I>Menidia conchorum</I>, a marine fish in a highly-fragmented, inland habitat. Bulletin of Marine Science, 2016, 92, 33-50.	0.8	4
30	Hypoxia and acidification in ocean ecosystems: coupled dynamics and effects on marine life. Biology Letters, 2016, 12, 20150976.	2.3	207
31	Calibrating and comparing somatic-, nucleic acid-, and otolith-based indicators of growth and condition in young juvenile European sprat (Sprattus sprattus). Journal of Experimental Marine Biology and Ecology, 2015, 471, 217-225.	1.5	22
32	Growth and Mortality in Coastal Populations of Winter Flounder: Implications for Recovery of a Depleted Population. Marine and Coastal Fisheries, 2015, 7, 246-259.	1.4	10
33	Combining otolith microstructure and trace elemental analyses to infer the arrival of juvenile Pacific bluefin tuna in the California current ecosystem. ICES Journal of Marine Science, 2015, 72, 2128-2138.	2.5	20
34	A quantitative genetic approach to assess the evolutionary potential of a coastal marine fish to ocean acidification. Evolutionary Applications, 2015, 8, 352-362.	3.1	40
35	Large Natural pH, CO2 and O2 Fluctuations in a Temperate Tidal Salt Marsh on Diel, Seasonal, and Interannual Time Scales. Estuaries and Coasts, 2015, 38, 220-231.	2.2	201
36	Vulnerability of early life stage Northwest Atlantic forage fish to ocean acidification and low oxygen. Marine Ecology - Progress Series, 2015, 523, 145-156.	1.9	84

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37	Temperature and photoperiod effects on sex determination in a fish. Journal of Experimental Marine Biology and Ecology, 2014, 461, 39-43.	1.5	45
38	Detecting the Unexpected: A Research Framework for Ocean Acidification. Environmental Science & Technology, 2014, 48, 9982-9994.	10.0	34
39	Coastal ocean acidification: The other eutrophication problem. Estuarine, Coastal and Shelf Science, 2014, 148, 1-13.	2.1	417
40	Hypoxia and Acidification Have Additive and Synergistic Negative Effects on the Growth, Survival, and Metamorphosis of Early Life Stage Bivalves. PLoS ONE, 2014, 9, e83648.	2.5	192
41	Offspring sensitivity to ocean acidification changes seasonally in a coastal marine fish. Marine Ecology - Progress Series, 2014, 504, 1-11.	1.9	115
42	Longitudinal Length Back-Calculations from Otoliths and Scales Differ Systematically in Haddock. Transactions of the American Fisheries Society, 2013, 142, 184-192.	1.4	4
43	Natural and Fukushima-derived radioactivity in macroalgae and mussels along the Japanese shoreline. Biogeosciences, 2013, 10, 3809-3815.	3.3	15
44	Decadal Changes in the World's Coastal Latitudinal Temperature Gradients. PLoS ONE, 2013, 8, e67596.	2.5	51
45	A novel length back-calculation approach accounting for ontogenetic changes in the fish lengthÂâ€“ otolith size relationship during the early life of sprat (Sprattus sprattus). Canadian Journal of Fisheries and Aquatic Sciences, 2012, 69, 1214-1229.	1.4	14
46	Fukushima-derived radionuclides in the ocean and biota off Japan. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5984-5988.	7.1	387
47	Contrasting Latitudinal Variations in Vertebral Number and Sex Determination in Pacific Versus Atlantic Silverside Fishes. Copeia, 2012, 2012, 341-350.	1.3	12
48	The ecophysiology of Sprattus sprattus in the Baltic and North Seas. Progress in Oceanography, 2012, 103, 42-57.	3.2	29
49	Recruitment processes in Baltic sprat â€“ A re-evaluation of GLOBEC Germany hypotheses. Progress in Oceanography, 2012, 107, 61-79.	3.2	24
50	Reprint of: The ecophysiology of Sprattus sprattus in the Baltic and North Seas. Progress in Oceanography, 2012, 107, 31-46.	3.2	9
51	Reduced early life growth and survival in a fish in direct response to increased carbon dioxide. Nature Climate Change, 2012, 2, 38-41.	18.8	249
52	Absence of countergradient and cogradient variation in an oceanic silverside, the California grunion Leuresthes tenuisÂ. Marine Ecology - Progress Series, 2012, 461, 175-186.	1.9	3
53	Changing otolith/fish size ratios during settlement in two tropical damselfishes. Helgoland Marine Research, 2011, 65, 425-429.	1.3	5
54	Adaptation to climate change: contrasting patterns of thermal-reaction-norm evolution in Pacific versus Atlantic silversides. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2265-2273.	2.6	67

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55	PERSPECTIVE: The role of experiments in understanding fisheryâ€induced evolution. Evolutionary Applications, 2009, 2, 276-290.	3.1	50
56	The German Bight (North Sea) is a nursery area for both locally and externally produced sprat juveniles. Journal of Sea Research, 2009, 61, 234-243.	1.6	17
57	Separation of Norwegian coastal cod and Northeast Arctic cod by outer otolith shape analysis. Fisheries Research, 2008, 90, 26-35.	1.7	87
58	Investigating the selective survival of summer- over spring-born sprat, Sprattus sprattus, in the Baltic Sea. Fisheries Research, 2008, 91, 1-14.	1.7	20
59	Starving early juvenile sprat Sprattus sprattus (L.) in western Baltic coastal waters: evidence from combined field and laboratory observations in August and September 2003. Journal of Fish Biology, 2007, 70, 853-866.	1.6	32
60	Recruitment variability in Baltic Sea sprat (Sprattus sprattus) is tightly coupled to temperature and transport patterns affecting the larval and early juvenile stages. Canadian Journal of Fisheries and Aquatic Sciences, 2006, 63, 2191-2201.	1.4	84
61	Linking growth to environmental histories in central Baltic young-of-the-year sprat, Sprattus sprattus: an approach based on otolith microstructure analysis and hydrodynamic modelling. Fisheries Oceanography, 2006, 15, 465-476.	1.7	46
62	Baltic sprat larvae: coupling food availability, larval condition and survival. Marine Ecology - Progress Series, 2006, 308, 243-254.	1.9	57
63	Temperature-induced regional and temporal growth differences in Baltic young-of-the-year sprat Sprattus sprattus. Marine Ecology - Progress Series, 2006, 317, 225-236.	1.9	36
64	The general distribution pattern and mixing probability of Baltic sprat juvenile populations. Journal of Marine Systems, 2005, 58, 52-66.	2.1	26
65	Short-term decoupling of otolith and somatic growth induced by food level changes in postlarval Baltic sprat, Sprattus sprattus. Marine and Freshwater Research, 2005, 56, 539.	1.3	44
66	Reconstruction of environmental histories to investigate patterns of larval radiated shanny (Ulvaria) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Science, 2003, 60, 243-258.	2.5	52